SUPPLY LINE

60

PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
100	100	100	100	100

ALLOCATION

62

FORECAST GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
FORECAST GROUP 1	20	20	50	50	20
FORECAST GROUP 2	80	80	50	50	80

DEMAND

64

FORECAST GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
FORECAST GROUP 2		300			

PROFIT ATP

66

FORECAST GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
FORECAST GROUP 1	20	20	50	50	50
FORECAST GROUP 2	0	0	0	0	40

FIG.2

SUPPLY LINE

50

PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
100	100	100	100	100

DEMAND

52

PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
	300			

AVAILABLE TO PROMISE

54

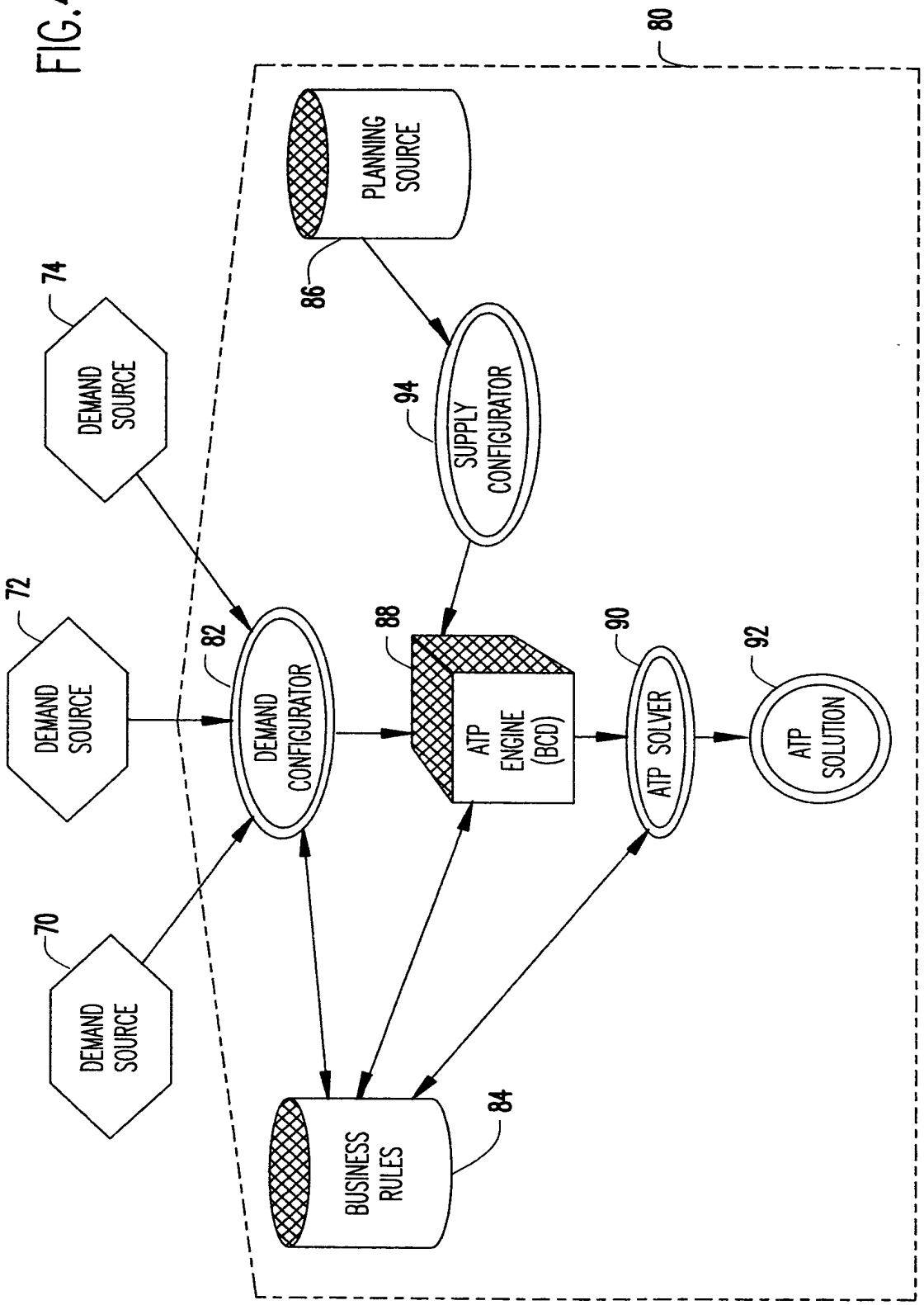
PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
0	0	0	100	100

FIG.1

	DEMAND TYPE	DEMAND CLASS
1	BACKORDER	1
2	FIRM-ORDER	2
3	ORDER MOVE-IN	3
4	ORDER MOVE-OUT	4
5	NEW REQUEST	6
6	UNSATISFIED REQUEST	6
7	FORECAST	9

FIG.3

FIG.4


80
PLANNING SOURCE
86
74
DEMAND SOURCE
94
SUPPLY CONFIGURATOR
72
DEMAND SOURCE
82
DEMAND CONFIGURATOR
88
ATP ENGINE (BCD)
90
ATP SOLVER
92
ATP SOLUTION
70
DEMAND SOURCE
BUSINESS RULES
84

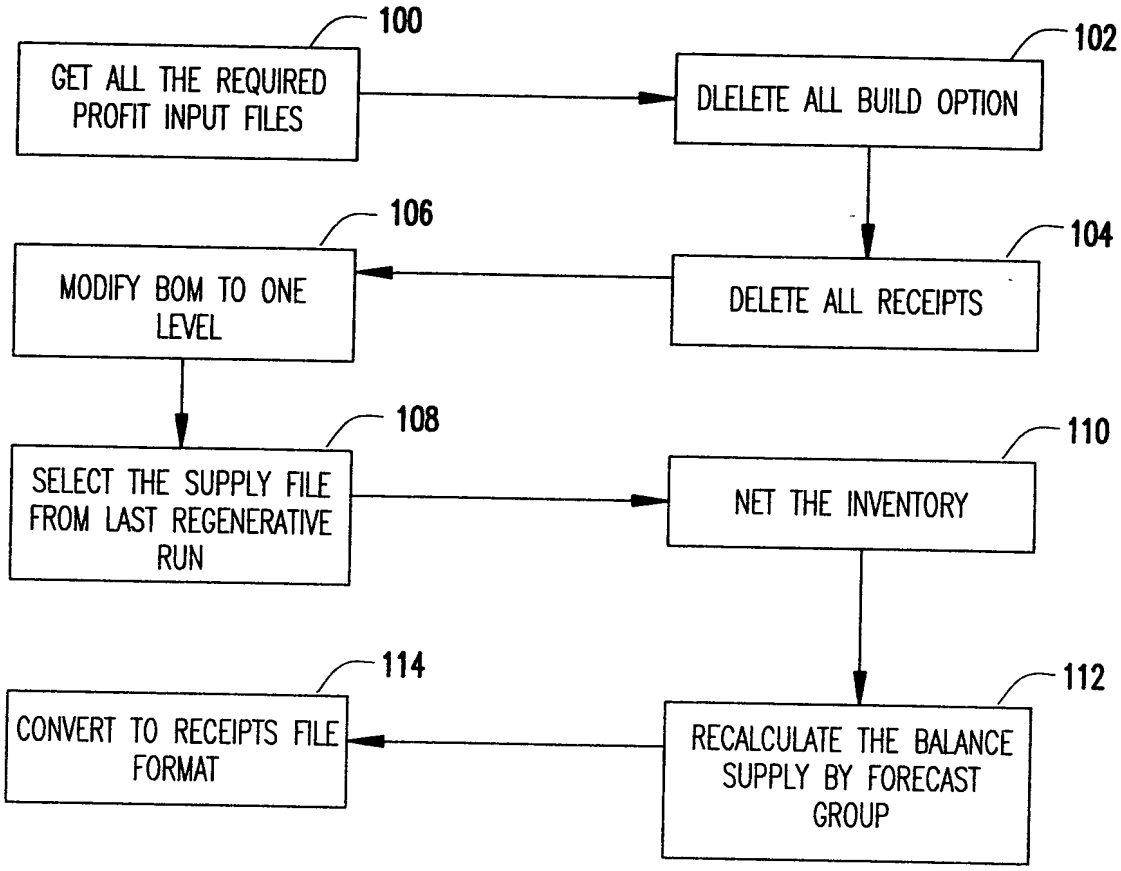

100
GET ALL THE REQUIRED PROFIT INPUT FILES
102
DLELETE ALL BUILD OPTION
104
DELETE ALL RECEIPTS
106
MODIFY BOM TO ONE LEVEL
108
SELECT THE SUPPLY FILE FROM LAST REGENERATIVE RUN
110
NET THE INVENTORY
112
RECALCULATE THE BALANCE SUPPLY BY FORECAST GROUP
114
CONVERT TO RECEIPTS FILE FORMAT

FIG.5

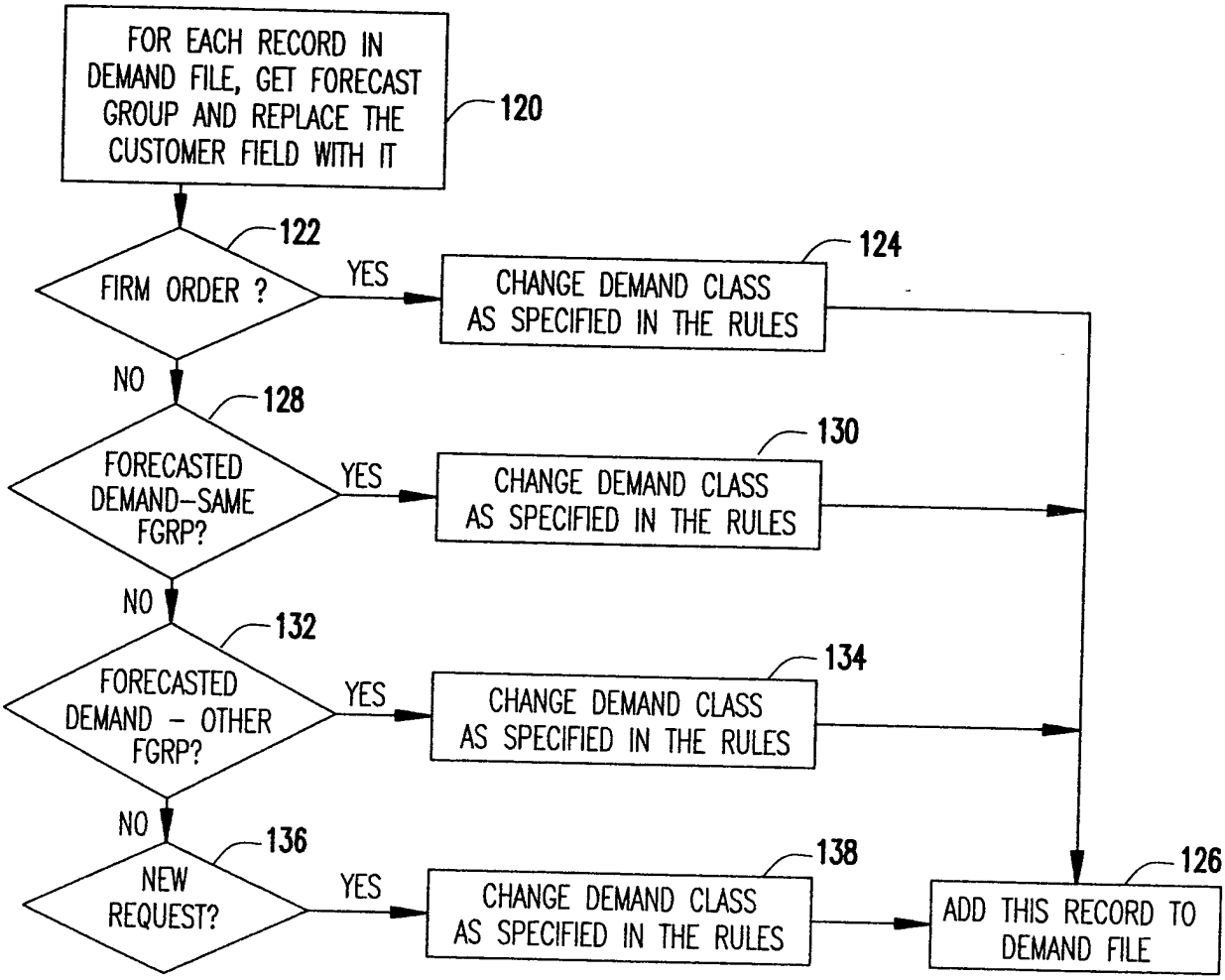

FOR EACH RECORD IN DEMAND FILE, GET FORECAST GROUP AND REPLACE THE CUSTOMER FIELD WITH IT
120
122
FIRM ORDER ?
YES
124
CHANGE DEMAND CLASS AS SPECIFIED IN THE RULES
NO
128
FORECASTED DEMAND–SAME FGRP?
YES
130
CHANGE DEMAND CLASS AS SPECIFIED IN THE RULES
NO
132
FORECASTED DEMAND – OTHER FGRP?
YES
134
CHANGE DEMAND CLASS AS SPECIFIED IN THE RULES
NO
136
NEW REQUEST?
YES
138
CHANGE DEMAND CLASS AS SPECIFIED IN THE RULES
126
ADD THIS RECORD TO DEMAND FILE

FIG.6

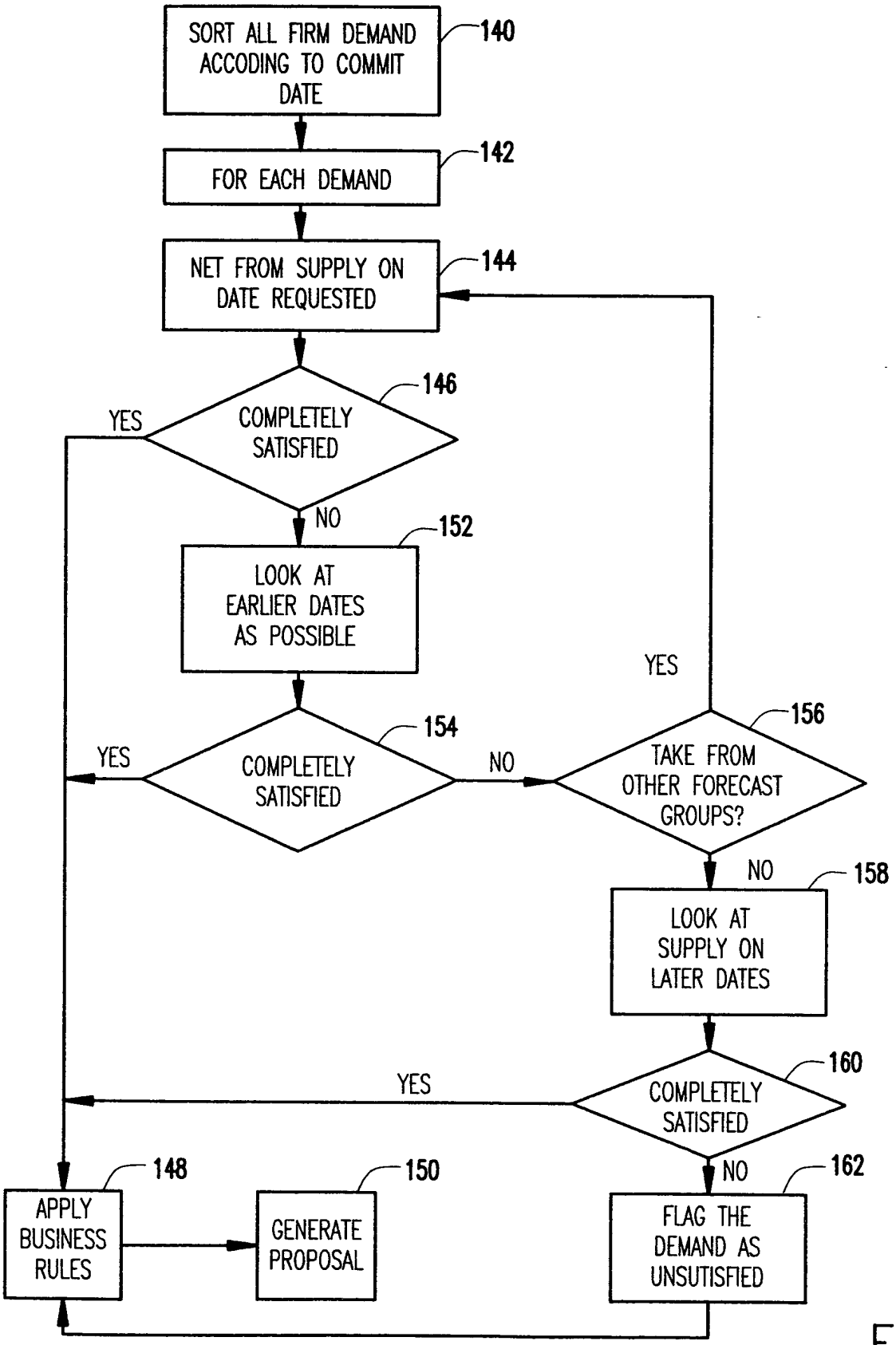

SORT ALL FIRM DEMAND ACCODING TO COMMIT DATE
140
FOR EACH DEMAND
142
NET FROM SUPPLY ON DATE REQUESTED
144
COMPLETELY SATISFIED
146
YES
NO
LOOK AT EARLIER DATES AS POSSIBLE
152
COMPLETELY SATISFIED
154
YES
NO
TAKE FROM OTHER FORECAST GROUPS?
156
YES
NO
LOOK AT SUPPLY ON LATER DATES
158
COMPLETELY SATISFIED
160
YES
NO
APPLY BUSINESS RULES
148
GENERATE PROPOSAL
150
FLAG THE DEMAND AS UNSUTISFIED
162

FIG.7